

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

Federal Operating Permit Number: 50001051

For: ACE COGENERATION COMPANY

Facility: ACE COGENERATION COMPANY
12801 S. Mariposa Street
Trona, CA 93562

Re-Issued Pursuant to MDAQMD Regulation XII
Effective Date: November 16, 2010

●SEE TITLE V PAGE 2 FOR PERMIT REVISION SUMMARY●

This Federal Operating Permit Expires
November 16, 2015

Issued By: Eldon Heaston
Executive Director
Air Pollution Control Officer

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PERMIT REVISIONS HISTORY

May 16, 2012 Significant Permit Modification described as follows: by Christian Anderson Diesel emergency generator, District permit E003369, replaced with new emergency generator, District permit E011451. Updated FOP parts I (Equipment list) and III (added permit unit as part III (Z). Additional Administrative Changes; by Samuel J. Oktay: Changed Condition 2 on Permits C002121, C002126, C002127, C002387, C002641, and C003370; Pages affected III-30 through III-39; Rule 442 Citation Changes, Pages affected II-11 through II-12; Rule 1113 Citation Changes, Pages affected II-14 through II-15; added Rule SIP History Reference, Page VI-56 through VI-57. Added Mr. Tim Cotner as the Responsible Official instead of Stephen Gross who has been designated as Alternate Responsible Official; page I-4. Added Compliance Assurance Monitoring Plan and calculations; pages VII-60 through VII-65.

March 28, 2011 Administrative Change

Updated facility contact, addition of applicable federal requirements, and clarification of recordkeeping elements - no change to emissions or existing limits.

December 16, 2010 Renewal of Title V Permit:

Update and renew Title V permit after concurrent 30 public notice and 45 day EPA review periods, effective reissue date November 16, 2010.

July 20, 2010 Administrative Change, adding a temporary carbon sequestration system as permit number C010900. This administrative change has been made pursuant to 40 CFR 70.7(d)(3)(i).

December 17, 2009 Administrative Change, add additional carbon monoxide limit to existing permit B002120 - no change to emissions or existing limits.

May 23, 2007 Administrative Change, update Responsible Official and facility contact.

November 16, 2005 Re-issuance, for new 5-year permit term.

February 6, 2003 Minor Permit Modification, Part I: added two baghouses to equipment description. Part III: revised existing conditions for steam generating boiler to reflect format changes and update allowed solid fuel list. Added conditions for new baghouses.

August 15, 2001 Administrative Change, Part I: updated responsible official and facility contacts. Part II – Applicable Requirements and Emissions Limitations: corrected reference to fugitive dust rule 403.1 in condition 15.

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PART I INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: ACE Cogeneration Company, a California Limited Partnership

Owner Mailing Address: 12801 S. Mariposa Street, Trona, CA 93562

Facility Name: ACE Cogeneration Company

Facility Location/Mailing Address: 12801 S. Mariposa Street, Trona, CA 93562

MDAQMD Federal Operating Permit Number: 50001051

MDAQMD Company Number: 5000

MDAQMD Facility Number: 01051

Responsible Official: Mr. Tim Cotner

Title: Plant Manager

Phone Number: 760-372-2113

Alternate Responsible Official: Mr. Stephen Gross

Title: Vice President

Phone Number: 949-425-4756

Facility "Site" Contacts: Mr. Steve Dobbs

Title: Operation Manager

Phone Number: 760-372-2113, extension # 122

Nature of Business: Electric Power and Steam Cogeneration

SIC Code: 4911 / 110 -- Electric Power and Steam Cogeneration

Facility Location: UTM (Km) 465E / 3957N

B. EQUIPMENT DESCRIPTION:

1. MDAQMD permit # B002120 – BOILER, STEAM GENERATING
2. MDAQMD Permit # B002122 - COOLING TOWER
3. MDAQMD Permit # B002128 - LIMESTONE HANDLING SYSTEM
4. MDAQMD Permit # B002131 - ASH HANDLING SYSTEM
5. MDAQMD Permit # B003255 - SOLID FUEL RECLAIM SYSTEM
6. MDAQMD Permit # B005120 - SOLID FUEL HANDLING SYSTEM
7. MDAQMD Permit # C002121 - BAGHOUSE SERVING STEAM GENERATOR
8. MDAQMD Permit # C002126 - BAGHOUSE: JUNCTION HOUSE 1
9. MDAQMD Permit # C002127 - BAGHOUSE: SOLID FUEL SILOS N
10. MDAQMD Permit # C002129 - BAGHOUSE: LIMESTONE TRUCK
11. MDAQMD Permit # C002387 - BAGHOUSE & CYCLONE
12. MDAQMD Permit # C002641 - BAGHOUSE
13. MDAQMD Permit # C003299 - BAGHOUSE
14. MDAQMD Permit # C003300 - BAGHOUSE
15. MDAQMD Permit # C003301 - BAGHOUSE
16. MDAQMD Permit # C003370 - BAGHOUSE AND CYCLONE
17. MDAQMD Permit # C005121 - BAGHOUSE (TRUCK DUMP)
18. MDAQMD Permit # C007862 - BAGHOUSE (STORAGE BIN)
19. MDAQMD Permit # C007863 - BAGHOUSE (SILO DISCHARGE C)
20. MDAQMD Permit # E003368 - EMERGENCY DIESEL FIRE PUMP
21. MDAQMD Permit # E003369 - EMERGENCY DIESEL GENERATOR (*Cancelled*)
22. MDAQMD Permit # T007861 - STORAGE BIN, SOLID FUEL

23. MDAQMD Permit # C008206 - BAGHOUSE (TRUCK DUMP)
24. MDAQMD Permit # C008207 - BAGHOUSE
25. MDAQMD Permit # C010900 - CARBON SQUESTRATION SYSTEM, TEMPORARY
26. MDAQMD Permit # E011451 - DIESEL IC ENGINE, EMERGENCY GENERATOR

PART II
**FACILITYWIDE APPLICABLE REQUIREMENTS;
EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS**

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A permit is required to operate this facility.
[Rule 203 - *Permit to Operate*; Version in State Implementation Plan (SIP) = California Air Resources Board (CARB) Ex. Order G-73, 40 Code of Federal Regulations (CFR) 52.220(c)(39)(ii)(B) - 11/09/78 43 Federal Register (FR) 52237; Current Rule Version = 07/25/77]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District.
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.
[Rule 207 - *Altering or Falsifying of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. Permits are not transferable.
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.
[Rule 217 - *Provision for Sampling And Testing Facilities*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(31)(vi)(C) - 02/01/77 43 FR 52237; Current Rule Version = 07/25/77]
9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[SIP Pending: Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 12/21/94; Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]
10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]
11. Owner/Operator shall pay all applicable MDAQMD permit fees.
[Rule 301 - *Permit Fees*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[Rule 312 - *Fees for Federal Operating Permits*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
13. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
 - (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.

- (b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:
- (i). Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.
 - (ii). Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.
 - (iii). Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.
 - (iv). On any of the above, if a visible emissions inspection documents opacity, an U.S. Environmental Protection Agency (EPA) Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.
- [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 [Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
 [40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]
14. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent.
- [40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]
 [Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]
15. Emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.
- [Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
16. Owner/Operator shall comply with the applicable requirements of Rule 403.1 unless an “Alternative PM₁₀ Control Plan” (ACP) pursuant to Rule 403.1(G) has been approved.
- [SIP Pending: Rule 403.1 - *Fugitive Dust Control for the Searles Valley Planning Area* as amended 11/25/96 and submitted 3/3/97]**

17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
- (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
 - (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
 - (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
- [Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]
18. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
 - (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
- [Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]
19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO₂), greater than or equal to 500 ppm by volume.
- [Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]
20. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
- (a) The provisions of this condition shall not apply to emissions from internal combustion engines.
- [Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
21. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
- (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.
- [Rule 408 - *Circumvention*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

22. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.

[Rule 409 - *Combustion Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

Reference Section III A(1)

23. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:

- (a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
- (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
- (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
- (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
- (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the APCO.

[**SIP Pending:** Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

24. Owner/Operator of this facility shall not discharge into the atmosphere emissions in excess of the following from VOC containing materials or from organic solvents which are not VOCs unless such emissions have been reduced by at least 85%:

- (a) VOCs from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month per Facility.
- (b) a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average.
- (c) The provisions of this condition shall not apply to:
 - (1) The manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
 - (2) The emissions of VOCs from VOC-containing materials or equipment which are subject to the rules of Regulation IV or which are exempt from

- air pollution control requirements by said rules.
- (3) The spraying or other employment of organic solvents as insecticides, pesticides or herbicides.
 - (4) The use of equipment or materials for which other requirements are specified in source specific rules of Regulation XI after the compliance dates specified in such source specific rules.
 - (5) The use of 1-1-1 Trichloroethane.
 - (6) Aerosol products

[SIP: Rule 442 – *Usage of Solvents*, As Amended Adopted; 9/17/2007, 72 FR 52791, 40 CFR 52.220(c)(347)(i)(C)(1)]

25. Owner/Operator shall not set open outdoor fires unless in compliance with Rule 444. Outdoor fires burned according to an existing District permit are not considered “open outdoor fires” for the purposes of Rule 444 (reference Rule 444(B)(10)).
[Rule 444 – *Open Outdoor Fires*, Version in SIP = Current, 40 CFR 2.220(c)(42)(xiii)(A) and 40 CFR 52.273 (6)(12)(i)]
26. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning, and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:
- (a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.
 - (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.
 - (c) Cold Solvent Degreasers - Freeboard Requirements:
 - (i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 - (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.
 - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
 - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.
 - (d) Cold Solvent Degreasers - Cover Requirements:
 - (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.
 - (e) Cold Solvent Degreasers - Solvent Level Identification:
 - (i) A permanent, conspicuous mark locating the maximum allowable solvent level

conforming to the applicable freeboard requirements.

(f) All Degreasers shall comply with the following operating requirements:

- (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
- (ii) Degreasers shall not be operating with any detectable solvent leaks.
- (iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
- (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; or a federally or state licensed facility to treat, store or dispose of such waste; or the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
- (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
- (vi) Solvent carry-out shall be minimized by the following methods:
 - (a) Rack workload arranged to promote complete drainage
 - (b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
 - (c) Retain the workload inside of the vapor zone until condensation ceases.
 - (d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
 - (e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
- (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
- (viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.
- (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.
- (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
- (xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
- (xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
- (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained

solvent is returned to the degreaser or container.

- (g) Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.
- (h) Solvent Usage Records. Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:
 - (1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
 - (i) product name(s) used in the degreaser, and
 - (ii) the mix ratio of solvent compounds mixtures of solvents are used, and
 - (iii) VOC content of solvent or mixture of compounds as used, and
 - (iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
 - (v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
 - (2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data are recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.
 - (3) Documentation shall be maintained on site of the disposal or on-site recycling of any waste solvent or residues.
 - (4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5-year period as required by this Title V / Federal Operating Permit (Reference Rule 1203(D)(1)(d)(ii)).

[Rule 1104 - *Organic Solvent Degreasing Operations*; Version in SIP = Current, 40 CFR 52.220(c)(207)(i)(D)(2) - 04/30/96 61 FR 18962, effective 11/30/94]

- 27. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the applicable requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed below:

Table of Standards

<u>COATING:</u>	<u>VOC (grams/liter</u>
	<u>[g/L])</u>
Below Ground Wood Preservatives	600
Bond Breakers	350
Concrete Curing Compounds	350
Dry-Fog Coatings	400
Fire Retardant Coatings	
Clear	650

Pigmented	350
Flat Coatings	100
Primers, Sealers and Undercoaters	200
Graphic Arts (Sign) Coatings	500
Industrial Maintenance Coatings	250
High Temperature Coatings	420
Anti-Graffiti coatings	600
Clear Brushing Lacquers	680
Lacquers (including lacque sanding sealers)	550
Magnesite Cement Coatings	450
Mastic Texture Coatings	300
Metallic-Pigmented Coatings	250
Multi-Color Coatings	580
Stains	250
Wood Preservatives	350
Pretreatment (Wash) Primer	420
Quick Dry Enamels	250
Quick Dry Primers, Sealers and Undercoaters	200
Roof Coatings	250
Sanding Sealers	350
Shellac	
Clear	730
Opaque	550
Swimming Pool Coatings	340
Swimming Pool Repair and Maintenance Coatings	340
Traffic Marking Coatings	150
Varnish	350
Waterproof Sealers	250

[Rule 1113 - *Architectural Coatings*; SIP: Submitted 04/01/2003; 40 CFR 52.220(c)(315)(i)(C)(1); Approved 01/02/04; Current Rule as Amended 02/24/03]

28. Owner/Operator's use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, part C, Table of Standards, as listed below:

(1) VOC Content of Coatings & Adhesives

- (a) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or

pounds per gallon [lb/gal]) is in compliance with this subsection.

(i) **LIMITS**
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97		On and After 7/1/2005
		Column I or g/L (lb/gal)	Column II g/L (lb/gal)	g/L (lb/gal)
Clear Sealers	680 (5.7)	550 (4.6)	680 (5.7)	275 (2.3)
Clear Topcoat	680 (5.7)	550 (4.6)	275 (2.3)	275 (2.3)
Pigmented Primers, Sealers and Undercoats	600 (5.0)	550 (4.6)	600 (5.0)	275 (2.3)
Pigmented Topcoats	600 (5.0)	550 (4.6)	275 (2.3)	275 (2.3)

Effective July 1, 1997, a person or facility shall use Coatings on Wood Products that comply with either all VOC Content limits in Column I or all VOC Content limits in Column II. A person or facility that applies a Pigmented Primer, Sealer or Undercoat, but not a Clear Topcoat or Pigmented Topcoat, to a Wood Product shall be subject to column I for that product.

- (ii) Notwithstanding the requirements of subsection (C)(1)(a)(i), a person or facility that applies a topcoat and a primer, sealer or undercoat to a Shutter may, until July 1, 2005, choose to comply with the VOC Content limits specified below for that Shutter:

(b) **LIMITS**
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoat	680 (5.7)
Pigmented Primers, Sealers & Undercoats	275 (2.3)
Pigmented Topcoats	600 (5.0)

(c) **LIMITS**
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit	On and After 7/1/97	On and After 7/1/2005

	g/L (lb/gal)	On and After 7/1/97	On and After 7/1/2005
		g/L (lb/gal)	g/L (lb/gal)
Fillers	500 (4.2)	500 (4.2)	275 (2.3)
High-Solid Stains	700 (5.8)	550 (4.6)	350 (2.9)
Inks	500 (4.2)	500 (4.2)	500 (4.2)
Mold-Seal Coatings	750 (6.3)	750 (6.3)	750 (6.3)
Multi-Colored Coatings	685 (5.7)	685 (5.7)	275 (2.3)
Low-Solids Stains, Toners and Washcoats	800 (6.7)	480 (4.0)	120 (1.0)
Adhesives	250 (2.1)	250 (2.1)	250 (2.1)

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, Approved: 08/18/98, 63 FR 44132, 40 CFR 52.220(c)(244)(i)(C); Approved 61 FR 18962, 04/30/96]

29. Owner/Operator's use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of Rule 1115, including the VOC limits specified in Rule 1115, as listed below:

Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

LIMITS

(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

<u>Coating</u>	<u>Air Dried</u>		<u>Baked</u>	
	g/L	(lb/gal)	g/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)

Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

30. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*). [Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
31. Maintenance, service, repair or disposal of equipment containing ozone depleting compounds as defined in Appendix A and Appendix B to Subpart A of 40 CFR Part 82 shall be performed by persons certificated by a technician certification program approved pursuant to 40 CFR Part 82. [40 CFR Part 82]
32. If the facility becomes subject to 40 CFR Part 68 (Risk Management Plan (RMP)) and/or 10 CCR §2735 et al. (California Accidental Release Program - CalARP), then the owner/operator shall submit and maintain a Risk Management Plan as required in the specified regulations. [40 CFR Part 68]
33. If the facility becomes subject to Title IV of the Clean Air Act, then the owner/operator shall request a modification to the Title V permit and prepare and submit the Title IV application forms. [Rule 1203(D)]

B. FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request. [40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
2. Any Compliance/Performance testing required by this Federal Operating Permit shall

follow the administrative procedures contained in the District's Compliance Test Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's Compliance Test Procedural Manual. All emission determinations shall be made as stipulated in the Written Test Protocol accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved Written Test Protocol may be used with District concurrence. [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
 - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
 - (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.
[40 CFR 70.6(a)(3)(B) – *Periodic Monitoring Requirements*]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]
- 4 (a) Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208, in a format approved by MDAQMD. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[40 CFR 70.6(c)(5)(i); Rule 1208; Rule 1203(D)(1)(vii-x)]
- (b) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]
- (c) Owner/Operator shall comply with any additional certification requirements as specified in 42 United States Code (U.S.C.) §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.
[Rule 1203 (D)(1)(g)(x)]
- (d) On an annual basis, of any given year, Owner/Operator shall submit a *Compliance Certification Report*, within 30 days of the anniversary of the date of the issuance or

renewal of the Federal Operating Permit, to the APCO/District pursuant to District Rule 1203. Each report shall be certified to be true, accurate, and complete by "The Responsible Official" and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]

5. Owner/Operator shall submit, on a semi-annual basis, a *Monitoring Report* to the APCO/District. One *Monitoring Report* shall be submitted no later than 30 days after the midpoint (six months after the Title V Permit month & day issue date) of the Title V Permit anniversary date of any given year. One *Monitoring Report* shall be submitted as an element of the *Compliance Certification Report*. This *Monitoring Report* shall be certified to be true, accurate, and complete by "The Responsible Official" and shall include the following information and/or data:
- (a) Summary of deviations from any federally-enforceable requirement in this permit.
 - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
 - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.

An alternate Monitoring Report format may be used upon prior approval by MDAQMD.
[Rule 1203(D)(1)(e)(i)]

6. Owner/Operator shall promptly report all deviations from Federal Operating Permit requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]

Prompt reporting shall be determined as follows:

- (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 - Breakdown Provisions as amended 12/21/94 and submitted 2/24/95]
 - (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]
7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition,

Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:

- (a) A narrative description of how the facility will achieve compliance with such requirements; and
- (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and
- (c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance.
[Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

C. FACILITY-WIDE COMPLIANCE CONDITIONS:

- 1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]
- 2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]
- 3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]
- 4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]

5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[1203 (D)(1)(f)(ii)]
6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.
[Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]
7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.
[40 CFR 61, subparts A and M]
8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.
[40 CFR 61.145.b]
9. Owner/Operator shall notify the APCO/District, on an annual basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].
[40 CFR 61.145.b]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS;
EMISSIONS LIMITATIONS;
MONITORING, RECORDKEEPING, REPORTING AND TESTING
REQUIREMENTS;
COMPLIANCE CONDITIONS;
COMPLIANCE PLANS

- A. EQUIPMENT DESCRIPTION: MDAQMD permit # B002120; BOILER, STEAM GENERATING, - Manufactured by Pyropower Corp., a circulating fluidized bed combustion boiler with two integral hot cyclones and a single convection pass, non-reheat, with nominal heat input of 1,052 MMBtu/hr and a steam output of 910,000 lb/hr at 1525 psig and 1005° F. The boiler has ammonia injection, limestone feed and the following equipment (note that horsepower has been converted to MMBtu assuming 2550 Btu/hp-hr):

Equipment Description:

Fan, Primary Air - one 1800RPM/4000V/3Ph/60Hz (3000 hp)
Fan, Secondary Air - one 1800RPM/4000V/3Ph/60Hz (900 hp)
Fan, Induced Draft - one 900RPM/4000V/3Ph/60Hz (2500 hp)
Blowers, High Pressure - 2 @ 200 hp each, 3550RPM/460V/3Ph/60Hz (400 hp)
Silos, Solid Fuel Storage - 2 @ 360 tons ea
Solid Fuel Feed System including the following:
Feeders, Solid Fuel Gravimetric - 4 @ 1.5 hp each (6 hp)
Feeders, Cleanout Drag Chain - 4 @ .5 hp each (2 hp)
Conveyors, Inclined Drag Chain - 2 @ 7.5 hp each (15 hp)
Conveyors, Horizontal Drag Chain - 2 @ 7.5 hp each (15 hp)
Conveyors, Bi-directional Screw - 2 @ 3 hp each (6 hp)
Fans, Feeder Pressurization - 2 @ 25 hp each (50 hp)
Blower, Flyash Reinjection - one 1800RPM/460V/3 Ph/60Hz (100 hp)
Silo, Limestone Storage - one 360 tons
Limestone Feed System for SOx control, includes the following:
Feeders, Gravimetric – DC, 2 @ 1 hp ea (2 hp)
Blowers, High Pressure - 2 @ 75 hp each, 460V/3Ph/60Hz (150 hp)
Feeders, Rotary - 2 @ 1 hp each, 10RPM/460V/3Ph/60Hz (2 hp)
Ammonia Injection System for NOx control, includes the following:
Tank, Ammonia Storage - one 12,100-gallon w/two 100% vaporizers and injection system
Pumps, Boiler Feed - 2200 GPM & 5054' head and manufactured by Sulzer Bingham
Westinghouse motors - 2 @ 3,500 hp each (7000 hp)
Pyropower Fluidized Bed Boiler (1052 MMBtu/hr)

1. The circulating fluidized bed combustion boiler shall be authorized to burn solid fuel (coal,

petroleum coke and/or coal with binder Covol 298-1 (not more than 2% Covol 298-1 by weight)) and/or natural gas as fuel. The following emissions limits shall not be exceeded at any firing rate, except for CO, NO_x and SO_x during period of startup, shutdown and stabilization (see Condition 2):

- a) Opacity – 20% Opacity (6-minute average, except for one 6-minute average of no more than 27% opacity) (verified by COMS) [40 CFR 60.42Da(b)]
 - b) Ammonia – 310 lb/day (verified by CEMS on a three-hour rolling average, computed every 15 minutes)
 - c) CO – 280 lb/hr and 316 ppmvd at 3% oxygen (verified by CEMS on a three-hour rolling average, computed every 15 minutes)
 - d) NO_x (as NO₂) – 104 lb/hr (verified by CEMS on a three hour rolling average, computed every 15 minutes)
 - e) NO_x - 210 ng/J (0.5 lb/MMBtu heat input) (verified by CEMS on a thirty day rolling average) [40 CFR 60.44Da(a)]
 - f) SO_x (as SO₂) – 83 lb/hr (verified by CEMS on a three hour rolling average, computed every 15 minutes)
 - g) SO_x - 520 ng/J (1.20 lb/MMBtu heat input) and 10 percent of the potential exhaust concentration or 30 percent of the potential combustion concentration when emissions are less than 260 ng/J (0.60 lb/MMBtu heat input) (verified by annual compliance test) [40 CFR 60.43Da(a)]
 - h) ROG – 5 lb/hr (verified by annual compliance test)
 - i) PM – 14.6 lb/hr and 13 ng/J (0.03 lb/MMBtu heat input) (verified by annual compliance test) [40 CFR 60.42Da(a)(1)]
 - j) PM₁₀ – 14.6 lb/hr (verified by annual compliance test)
 - k) Sulfates – 3.7 lb/hr (verified by annual compliance test)
- [MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. Emissions of CO, NO_x and SO_x may exceed the limits contained in Condition 1 during startup, shutdown, and stabilization periods within the limits of this condition.

a. The startup, shutdown and stabilization periods for NO_x and SO_x are defined as follows:

- (1). Startup is when the boiler is being fired, in whole or in part, with natural gas for the purpose of introducing solid fuel.
- (2). A shutdown is when natural gas is introduced to the boiler to bring the unit off line in a controlled fashion.
- (3). Stabilization is:
 - A) During start-up, the period from when the natural gas is taken out of service and power output on solid fuel is increasing until the boiler is up to a stable operating range and generating more than 40 MW(e) net;
 - B) During shutdown the period starting when the natural gas is placed in service to bring the unit off line in a controlled fashion.

b. The startup, shutdown and stabilization periods for CO are defined as those periods when the boiler is being fired, in whole or in part, with natural gas.

c. During periods of startup, shutdown and stabilization the emissions of CO, NO_x and SO_x shall not exceed the following based on a 3 hour rolling average:

- (1). CO – 2,000 lb/hr but not for any period longer than 12 hours.
 - (2). NO_x and SO_x – 200 lb/hr of each but not for any period longer than 4 hours.

[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. The total annual emissions, including the excess emissions allowed in Condition 2, for CO, NO_x and SO_x when calculated on a 52 week rolling annual average shall not exceed the following:
CO – 1226 tons/year
NO_x – 456 tons/year
SO_x – 364 tons/year
Compliance with this emission limit shall be determined by using the CEMS data and a week is defined as beginning at 0001 hours Monday and ending at 2400 hours Sunday.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. When the emission limits of Condition 2 are to be applied, the District is to be informed by phone prior to or as soon as practicable after the subject period occurs. ACE Cogeneration Co (o/o) shall report to the District in the quarterly report (Condition No. 10) when a startup, shutdown or stabilization period occurred and the actual emissions recorded during that period.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. The daily emission of the following pollutants CO, NO_x (as NO₂), SO_x (as SO₂) and Ammonia as well as O₂ (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas flow rate shall be monitored using a Continuous Emission Rated Monitoring System (CERMS). The stack gas opacity shall be monitored using a Continuous Opacity Monitoring System (COMS). These systems shall be operating at all times in accordance with the District approved monitoring plan.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. The following are the acceptability testing requirements for the CEMS, CERMS and COMS:
 - a. For COMS (Opacity) – Performance Specification 1 of 40 CFR 60 Appendix B.
 - b. For SO₂ and NO_x CEMS – Performance Specification 2 of 40 CFR 60 Appendix B.
 - c. For O₂ CEMS – Performance Specification 3 of 40 CFR 60 Appendix B.
 - d. For CO CEMS – Performance Specification 4 of 40 CFR 60 Appendix B.
 - e. For Ammonia CEMS – Acceptability testing to be performed per a District approved procedure that is to be submitted by the o/o.

[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
7. All of the following baghouses shall be functional and operating under all conditions (start-ups, stabilization periods and shutdowns) and firing rates:

- a. C002121 – Steam Generation Baghouse
- b. C002127 – Solid Fuel Silos Baghouse
- c. C002387 – Bottom Ash Handling System Baghouse
- d. C002641 – Limestone Storage Silo Baghouse (Bin Vent)
- e. C003299 – Fly Ash Storage Silo Baghouse (Bin Vent)
- f. C003300 – Fly Ash Storage Silo Baghouse (Bin Vent)
- g. C003301 – Bottom Ash Storage Silo Baghouse (Bin Vent)
- h. C003370 – Fly Ash Handling System Baghouse

[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

8. Annual compliance tests must be performed on this boiler and the baghouse covered by District permit C002121 in accordance with the District Compliance Test Procedural Manual. The test report shall be submitted to the District within 60 days following completion of testing but not later than six weeks prior to the expiration date of this permit.

The following compliance tests are required:

- a. Oxides of nitrogen (NO_x as NO₂ in ppmv at 3% O₂, dry basis and lb/hr)
- b. Reactive Organic Gases (ROG) (in ppmv at 3% O₂, dry basis and lb/hr)
- c. Oxides of sulfur (SO_x as SO₂ in ppmv at 3% O₂, dry basis and lb/hr)
- d. Carbon monoxide (in ppmv at 3% O₂, dry basis and lb/hr)
- e. PM, PM₁₀ and sulfates (as milligram/cubic meter at 3% O₂, dry basis and lb/hr)
- f. Flue gas flow rate (SCFM, dry basis)
- g. Ammonia (in ppmv at 3% O₂, dry basis and lb/day)

[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

9. The o/o shall record monthly the sulfur content of the solid fuel. The solid fuel samples can either be composited “on delivery” or “as fired.” To satisfy the “as delivered” condition the o/o may use vendor analyses. Such records shall be maintained for a period of at least five (5) years and made available to District personnel on request. This boiler shall be fired only with solid fuel where the percentage of sulfur by weight does not exceed 4.0%. Natural gas may be fired during startup, shutdown and for stabilization and as an alternative fuel source at any time.

[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

10. Until a digital acquisition system that is telemetrically compatible with District software is installed, quarterly reports shall be provided to the District Compliance Supervisor in accordance with the District approved monitoring plan and shall present, but not be limited to, the following data:

- a. CEMS data (24-hour block averages (daily average) of NO_x (lbs/hr), SO_x (lbs/hr as SO₂), CO (lbs/hr) and CO (ppmvd at 3% oxygen)
- b. CERMS data (24-hour block average (daily average) of stack exhaust flow (lbs/hr))
- c. COMS data (24-hour block average (daily average) of opacity (%))

All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

11. The o/o may use coal and natural gas as primary fuels but petroleum coke shall not be used as a solid fuel until the storage facility, conveyors and baghouse covered by District permits B005120 and C005121 are constructed and operational.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 12. The District shall be notified in writing:
 - a. When the construction of the petroleum coke storage facility with conveyors and baghouse is started.
 - b. When the construction of the petroleum coke storage facility with conveyors and baghouse is completed.[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 13. This unit is subject to Clean Air Mercury Rule (CAMR) - 40 CFR 60 Subpart HHHH. Beginning in 2009, this equipment is subject to mercury emission monitoring and reporting requirements (in the form of annual mercury testing per 40 CFR 75.81, and reporting per 40 CFR 60.4170 through 4176).
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
- B. MDAQMD Permit # B002122 - COOLING TOWER, consisting of:
- a. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - b. Owner/Operator shall comply with District Rule 1503 relative to the Hexavalent Chromium Emissions from Cooling Towers and shall not operate a cooling tower unless hexavalent chromium containing water treatment chemicals are not added to cooling tower circulating water. The concentration of hexavalent chromium in the circulating water of a non-wooden cooling tower shall not exceed 0.15 milligram per liter (mg/L) and shall be tested every six months. Records shall be retained for five years and made available, upon request, to the Air Pollution Control Officer or representative. Records shall contain, but are not limited to, the information as required by paragraph (D) of District Rule 1503. The operator shall maintain records' regarding all cooling towers in one location, with current originals or copies at this facility site.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 1503 - *Chromium Emissions From Cooling Towers*; Not in SIP]

- c. The drift rate shall not exceed 0.0015 percent with a maximum circulation rate of 64,000 GPM. The maximum PM and PM₁₀ emission rates shall not exceed 15 and 13 lb/hr respectively.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - d. Weekly tests of the blowdown water quality shall be performed by Owner/Operator in accordance with the standard test procedures. These weekly recordings, including mass emission rate, are to be placed into a log and be maintained on sites for a minimum of five (5) years and be provided to District, state or federal personnel on request.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - e. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - f. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel on request.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
- C. MDAQMD Permit # B002128 - LIMESTONE HANDLING SYSTEM, consisting of:
- a. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002129 and C002641.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - b. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
- D. MDAQMD Permit # B002131 - ASH HANDLING SYSTEM, consisting of:
- a. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002387, C003299, C003300 and C003370.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- b. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or suppliers recommendations and/or sound engineering principles.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
- E. MDAQMD Permit # B003255 - SOLID FUEL RECLAIM SYSTEM, consisting of:
 - a. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002126 and C002127.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 - b. All equipment shall be maintained and operated at all times in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
 - c. All conveyor systems shall be fully enclosed. Water spray systems, which are activated by conveyor motion, shall be provided at all transfer points except at those controlled by baghouses.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- F. MDAQMD Permit # B005120 - SOLID FUEL HANDLING SYSTEM, consisting of:
 - a. The installation and operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - b. Solid fuel shall not be discharged inside the Truck Dump Station unless the truck bottom dump is enclosed by the building and plastic slats, which is vented to the functioning air pollution control equipment covered by valid District permit C005121.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 - c. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

- d. The Silo Discharge Conveyor shall not be operated unless its discharge drop is vented to the functioning air pollution control equipment covered by valid District permit C007863.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- G. MDAQMD Permit # C002121 - BAGHOUSE SERVING STEAM GENERATOR, consisting of:
- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- b. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
- a. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Quarterly bag and bag suspension system inspection date and results;
 - c. Date of bag replacements; and,
 - d. Date and nature of any system repairs.
- [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- e. This baghouse shall operate concurrently with the Steam Generating Boiler under valid District permit number B002120.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- f. Owner/Operator shall conduct annual emissions tests on this unit in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions of the Steam Generating Boiler, District permit B002120. The test report of emissions shall be forwarded to the District no later than 60 days subsequent to the final day of on-site sampling and measurement.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- H. MDAQMD Permit # C002126 - JUNCTION HOUSE "1" BAGHOUSE: consisting of:
- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*](for *Periodic Monitoring Requirements*, see Part II and Part III conditions)
- b. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
- Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - Quarterly bag and bag suspension system inspection date and results;
 - Date of bag replacements; and,
 - Date and nature of any system repairs.
- [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- e. This baghouse shall operate concurrently with Junction House 14 of Solid Fuel Reclaim System under valid District permit number B003255.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- I. MDAQMD Permit # C002127 - SOLID FUEL SILOS "N" BAGHOUSE: consisting of:
 - a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
 - b. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
 - a. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Quarterly bag and bag suspension system inspection date and results;
 - c. Date of bag replacements; and,
 - d. Date and nature of any system repairs.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
 - c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
 - d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- e. This baghouse shall operate concurrently with Solid Fuel Reclaim System under valid District permit number B003255.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

J. MDAQMD Permit # C002129 - LIMESTONE TRUCK BAGHOUSE, consisting of:

- a. This baghouse shall operate concurrently with the equipment described as the Limestone Truck Unloading and Crushing and Limestone Handling System (B002128).

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- b. Owner/Operator shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

a. Pressure differential across the bags (weekly);

b. Baggouse stack visible emissions determination (monthly);

c. Bags and bag suspension system inspection (quarterly); and

d. Bag replacements and repairs.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- c. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- e. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- f. This baghouse shall discharge no more than 1.08 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- g. Within 180 days from the initial start-up of this unit, Owner/Operator shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 60 days subsequent to the final day of on-site sampling and measurement.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

K. MDAQMD Permit # C002387 – BOTTOM ASH BAGHOUSE & CYCLONE:
consisting of:

- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- b. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:

- a. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b. Quarterly bag and bag suspension system inspection date and results;
- c. Date of bag replacements; and,
- d. Date and nature of any system repairs.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs

and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- e. This baghouse shall operate concurrently with the Bottom Ash Handling System under valid District permit number B002131.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- L. MDAQMD Permit # C002641 – LIMESTONE STORAGE SILO BAGHOUSE:
consisting of:

- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- b. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:

a. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);

b. Quarterly bag and bag suspension system inspection date and results;

c. Date of bag replacements; and,

d. Date and nature of any system repairs.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- e. This baghouse shall operate concurrently with Limestone Storage Silo under valid District permit number B002120.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- M. MDAQMD Permit # C003299 – FLY ASH REINJECTION SILO BAGHOUSE:
consisting of:
 - a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 - b. Owner/Operator shall institute a program of maintenance, which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 - c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 - d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- e. This baghouse shall operate concurrently with Fly Ash Re-injection Silo under valid District permit number B002131.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- N. MDAQMD Permit # C003300 – FLY ASH STORAGE SILO BAGHOUSE: consisting of:
- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- b. Owner/Operator shall institute a program of maintenance, which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- e. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- f. This baghouse shall operate concurrently with Fly Ash Storage Silo under valid District

permit number B002131.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

O. MDAQMD Permit # C003301 – BOTTOM ASH STORAGE SILO BAGHOUSE:
consisting of:

- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- b. Owner/Operator shall institute a program of maintenance, which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- e. This baghouse shall operate concurrently with Bottom Ash Storage Silo under valid District permit number B002131.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

P. MDAQMD Permit # C003370 – FLY ASH HANDLING SILO BAGHOUSE and
CYCLONE, consisting of:

- a. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
 - b. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
 - a. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Quarterly bag and bag suspension system inspection date and results;
 - c. Date of bag replacements; and,
 - d. Date and nature of any system repairs.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
 - c. Owner/Operator shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
 - d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[MDAQMD Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
 - e. This baghouse shall operate concurrently with Fly Ash Handling System under valid District permit number B002131.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- Q. MDAQMD Permit # C005121 – SOLID FUEL BAGHOUSE (TRUCK DUMP), consisting of:
- a. This baghouse shall operate concurrently with the equipment described as the Truck Dump Station (B005120).
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- b. Owner/Operator shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:
- a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
- [Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- c. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
- [Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
- [Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- e. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
- [Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- f. This baghouse shall discharge no more than 0.44 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.
- [Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- g. Within 180 days from the initial start-up of this unit, Owner/Operator shall conduct

emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 60 days subsequent to the final day of on-site sampling and measurement.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

R. MDAQMD Permit # C007862 - SOLID FUEL BAGHOUSE (STORAGE BIN), consisting of:

- a. This baghouse shall operate concurrently with the equipment described as the Solid Fuel Storage Bin (T007861).

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- b. Owner/Operator shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- c. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- e. Owner/Operator shall install and maintain a device which measures the pressure

differential across the bags if one has not been provided with this unit.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- f. This baghouse shall discharge no more than 0.10 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- g. Within 180 days from the initial start-up of this unit, Owner/Operator shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 60 days subsequent to the final day of on-site sampling and measurement.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- S. MDAQMD Permit # C007863 - SOLID FUEL BAGHOUSE (SILO DISCHARGE C), consisting of:

- a. This baghouse shall operate concurrently with the equipment described as the Silo Discharge Conveyor (B005120).

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- b. Owner/Operator shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- c. Owner/Operator shall install, operate and maintain this dust collector in strict accord with

those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- d. Owner/Operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- e. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- f. This baghouse shall discharge no more than 0.10 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- g. Within 180 days from the initial start-up of this unit, Owner/Operator shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 60 days subsequent to the final day of on-site sampling and measurement.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- T. MDAQMD Permit Number E003368; EMERGENCY FIREPUMP, DIESEL FIRED, CUMMINS ENGINE MODEL # NTA855F, 400 BHP @ 2150 rpm, serial # 11440677.

- a. Owner/Operator is limited to operating this fire pump for emergency water supply (when commercially available power has been interrupted or when system pressure is lost). The unit may be operated weekly as part of a testing program, which does not exceed 60 minutes per week.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

- b. Owner/Operator shall use only diesel fuel whose sulfur concentration does not exceed 15 ppm by weight. Owner/Operator may use the supplier's furnished certification of sulfur content if the certifications are maintained on file as a part of the log.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- c. This engine shall not be operated more than 20 hours in a calendar year without prior written approval of the District APCO. Owner/Operator shall log the starting and stopping times of the operational periods of this engine, to the nearest hour, including the date. Owner/Operator shall log all fuel use of engine by volume on a calendar quarterly basis. Owner/Operator shall log the Volume and dates of delivery of diesel fuel.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- d. Owner/Operator shall insure this engine complies with applicable Part II and Part III conditions.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- e. Owner/Operator shall operate this engine in strict accord with manufacturer's specifications and/or sound engineering principles.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- f. Operation of this engine shall be conducted in compliance with all data and specifications submitted with the application under which the District permit was issued.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- g. Owner/Operator shall maintain all operating logs; including inspection, repair and maintenance records; and fuel use information; on this equipment current and on-site, for a minimum of five (5) years from the date the records were created to substantiate compliance with all conditions of this Federal Operating Permit. Records shall be provided to District, state or federal personnel upon request. These Records shall include a copy of the diesel fuel specifications used to fuel engines.
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
[Rule 1203(D)(1)(d)(ii)]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

- h. This engine does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
- U. MDAQMD Permit Number E003369; EMERGENCY ELECTRICAL POWER GENERATOR, DIESEL FIRED, CATERPILLAR ENGINE Model # 3208-175, 263 BHP @ 1800 rpm, Serial # 5YF00392.
- a. Owner/Operator is limited to operating this engine for emergency power (when commercially available power has been interrupted). The unit may be operated weekly as part of a testing program, which does not exceed 60 minutes per week.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- b. Owner/Operator shall use only diesel fuel whose sulfur concentration does not exceed 15 ppm by weight. Owner/Operator may use the supplier's furnished certification of sulfur content if the certifications are maintained on file as a part of the log.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- c. This engine shall not be operated more than 20 hours in a calendar year without prior written approval of the District APCO. Owner/Operator shall log the starting and stopping times of the operational periods of this engine, to the nearest hour, including the date. Owner/Operator shall log all fuel use of engine by volume on a calendar quarterly basis. Owner/Operator shall log the Volume and dates of delivery of diesel fuel.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- d. Owner/Operator shall insure this engine complies with applicable Part II and Part III conditions.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- e. Owner/Operator shall operate this engine in strict accord with manufacturer's specifications and/or sound engineering principles.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- f. Operation of this engine shall be conducted in compliance with all data and specifications submitted with the application under which the District permit was issued.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- g. Owner/Operator shall maintain all operating logs; including inspection, repair and maintenance records; and fuel use information; on this equipment current and on-site, for a minimum of five (5) years from the date the records were created to substantiate compliance with all conditions of this Federal Operating Permit. Records shall be provided to District, state or federal personnel upon request. These Records shall include a copy of the diesel fuel specifications used to fuel engines.
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
[Rule 1203(D)(1)(d)(ii)]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
- h. This engine does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
- V. MDAQMD Permit # T007861; STORAGE BIN, SOLID FUEL, consisting of: 300-ton fuel bin measuring 75 feet high by 20 feet. Capacity calculated at 300 gallons per ton, or 90,000 gallons.
- a. The operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- b. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- c. This equipment shall not accept solid fuel unless it is vented to the functioning air pollution control equipment covered by valid District permit C007862.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- W. MDAQMD Permit # C008206; BAGHOUSE (TRUCK DUMP), consisting of: Serving the Truck Dump Station (B005120) along with C005121, equipped with a 20 hp fan generating 17,000 acfm. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.
1. This baghouse shall operate concurrently with the equipment described as the Truck Dump Station (B005120).
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

6. This baghouse shall discharge no more than 0.44 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
7. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
- X. MDAQMD Permit # C008207; BAGHOUSE, consisting of: Serving the discharge to conveyor belt of the Truck Dump Station (B005120), equipped with a 5 hp fan generating 4000 acfm. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.
1. This baghouse shall operate concurrently with the equipment described as the Truck Dump Station (B005120).
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]
3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 6. This baghouse shall discharge no more than 0.1 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
 7. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
- Y. MDAQMD Permit # C010900 - CARBON SQUESTRATION SYSTEM, TEMPORARY, consisting of: A sodium hydroxide absorber pilot scale system processing 10 percent of the flue gas from the ACE coal fired boiler (B002120), exhausting through its own separate stack. This system is designed to convert gaseous carbon dioxide into carbonate and/or bicarbonate, and will use sodium hydroxide, ACE cooling tower blowdown water and/or Searles Lake brine as reagents.
1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

2. The exhaust from this equipment, in combination with the exhaust from the primary exhaust stack for the steam boiler (B002120), shall comply with all emission limits and restrictions of B002120 while this equipment accepts flue gas from that boiler, verified by CEMS and weekly visibility determination in accordance with Federal Opacity Reference Method 22 (and 9 if necessary).
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
3. The emissions of CO, NO_x (as NO₂), Ammonia and SO_x (as SO₂) as well as O₂ (a diluent gas) of this equipment shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS). These systems shall be operating at all times in accordance with the District approved monitoring plan.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
4. The following are the acceptability testing requirements for the CEMS, CERMS and COMS:
 - a. For SO₂ and NO_x CEMS - Performance Specification 2 of 40 CFR 60 Appendix B.
 - b. For O₂ CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.
 - c. For CO CEMS - Performance Specification 4 of 40 CFR 60 Appendix B.
 - d. For CERMS (stack gas flow rate) - Performance Specification 6 of 40 CFR 60 Appendix B.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
5. This unit is subject to Clean Air Mercury Rule (CAMR) - 40 CFR 60 Subpart HHHH. Beginning in 2009, this equipment is subject to mercury emission monitoring and reporting requirements (in the form of annual mercury testing per 40 CFR 75.81, and reporting per 40 CFR 60.4170 through 4176).
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]
6. Emissions and operations of this equipment shall be logged and reported as an element of the log and reports for the steam boiler (B002120), including explicit references to separate and cumulative emissions for those periods during which this equipment receives flue gas from the steam boiler. A separate log shall be maintained that includes the date and results of stack visibility observations.
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

- Z. MDAQMD Permit # E011451 - DIESEL IC ENGINE, EMERGENCY GENERATOR, consisting of: Year of Mfg. 2012, USEPA Tier 3, USEPA Engine Family Name CJDXL03.0113, One Cummins, Diesel fired internal combustion engine, Model No. QSB-G5 NR3 and Serial No. TBD, After Cooled, Direct Injected, Turbo Charged, producing 303 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 14 gal/hr. This equipment powers a Generator.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE

VERSION = 07/25/77:

1. This certified, stationary, compression-ignited, internal combustion engine shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR Part 60, Subpart IIII - NSPS for Stationary Compression Ignition ICE]
2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [17 CCR 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR Subpart IIII]
3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [17 CCR 93115 and 40 CFR 80.510, Standards and Marker Requirements for NRLM diesel fuel]
4. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect. [17 CCR 93115] ***District and State Only***
5. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit. [17 CCR 93115, 40 CFR Subpart IIII, District Regulation XIII]

6. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours-per the nonresettable hour timer);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
 - d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log). [17 CCR 93115]
7. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier. [17 CCR 93115] ***District and State Only***
8. This genset is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115) and Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII). In the event of conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.
9. This equipment replaces existing emission unit with District Permit E003369. Prior to the operation of this equipment, District Permit E003369 shall be surrendered by the owner/operator and said permit shall be voided. [Regulation XIII]

PART IV STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]
2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]
7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]
9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that “only” Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]
16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]
17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State

Implementation Plan.

[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]

18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.
[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]
20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]
21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]
23. Owner/operator desiring to renew this Federal Operating Permit shall submit an application for renewal at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal Operating Permit.
[40 CFR 70, Rule 1202(B)(3)(b)]

PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO (S):

B. OFF PERMIT CHANGES:

I. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:

- A. Permittee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and
1. The proposed change is not:
 - a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See 1203(E)(1)(c)(i)d]*
 - b. A modification under Title I of the Federal Clean Air Act; or
 - c. A modification subject to Regulation XIII; and *[See 1203(E)(1)(c)(i) d]*
 - d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See 1203(E)(1)(c)(i)c]*
 - e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See 1203(E)(1)(c)(i)e]*

II. Procedure for “Off Permit” Changes

- A. If a proposed “Off Permit Change” qualifies under Part V, Section (B)(I)(A)(1) above, permittee shall implement the change as follows:
1. Permittee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. *[See 1203(E)(1)(c)(i)b]*
 2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
 - a. A notification that this application is also an application for an “Off Permit” Change pursuant to this condition; and *[See 1203(E)(1)(c)(i)b]*
 - b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See 1203(E)(1)(c)(i)b.]*
 - c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. *[See 1203(E)(1)(c)(i)c]*
 3. Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See 1203(E)(1)(c)(i)a]*
- B. Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. *[See 1203(E)(1)(c)(i)a and g]*

- C. Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. *[See 1203(E)(1)(c)(i)ff]*
 - D. Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See 1203(E)(1)(c)(i)ff]*
- III. Other Requirements:
- A. The provisions of Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.
 - B. The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]*
- [Rule 1203(E)(1)(c)]*

PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional SO₂ Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO₂ Emissions

B. Other conventions:

1. Unless otherwise noted, a “day” shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CARB	California Air Resources Board
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	carbon monoxide
CO ₂	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
EO	Executive Order
hp	horse power
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
o/o	Owner/operator
PM ₁₀	particulate matter less than 10 microns aerodynamic diameter
psia	pounds per square inch absolute
psig	pounds per square inch gage
rpm	revolutions per minute
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO ₂	sulfur dioxide
Tpy	tons per year

D. MDAQMD Rule SIP History

For Rule SIP History including approval, pending approval, etc, see:

<http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=45>

COMPLIANCE ASSURANCE MONITORING PLAN (CAM Plan)

for

ACE Cogeneration

**Prepared for:
ACE Cogeneration
12801 Mariposa Street
Trona, CA 93582**

**Prepared by:
Constellation Power Generation
95 Enterprise
Aliso Viejo, CA 92656**

September 2008

Compliance Assurance Monitoring Plan (CAM Plan) ACE Cogeneration

I. Emission Unit Description

Description: Circulating fluidized bed combustion boiler (coal and petroleum coke fired)

Identification: Boiler

Facility: ACE Cogeneration
12801 Mariposa Street
Trona, California

II. Applicable Regulations, Limits, and Monitoring Requirements

Regulations: 40 CFR 60

Permit Number: 50001051

Emission Limits: 14.6 lbs/hr

Monitoring Requirements:

PM: Stack test every year or when directed by District

Control Technology:

Baghouse Manufactured by Brandt Environmental Corp.

III. Additional Information

The facility is subject to the Compliance Assurance Monitoring (CAM) requirements for PM because it is a major source for PM emissions (uncontrolled) and there is no continuous monitor for the PM emissions.

The PM₁₀ emissions are controlled by a baghouse. It has ten (10) compartments, each of which can be isolated if necessary. The pressure drop across the baghouse is monitored continuously and the opacity in the exhaust stack is measured continuously. The pressure drop for each compartment is recorded once per day in an electronic log. The baghouse cleaning cycle is controlled by a pressure differential across the entire baghouse. When the set point is reached, each compartment will be cleaned in a specified order.

The facility has a Circulating Fluidized Bed (CFB) boiler. Upon leaving the boiler, the

exhaust gases pass through cyclones which remove large particulates (PM) from the flue gas stream. The exhaust gases then pass through the backpass section and into the fabric filter for additional particulate removal.

IV. Monitoring Approach

The monitoring approach is to track indicators of the baghouse performance. The indicators chosen are pressure drop across the baghouse and opacity measured in the exhaust stack. The pressure drop is indicative of several potential problems associated with the operation of a fabric filter such as: blinding of the filters and the incorrect operation of the baghouse cleaning cycle. The opacity is monitored in the exhaust stack and higher values are indicative of a decrease in fabric filter performance. The key elements of the monitoring approach are presented in Table 1.

Table 1
Monitoring Approach Data

Description	Indicator 1	Indicator 2
A. Indicator	Pressure Drop	Exhaust Stack Opacity
Measurement Approach	Pressure difference between upstream and downstream sections of baghouse	Percent of light passing across stack is measured
B. Indicator Range	<ul style="list-style-type: none"> - 0 in H₂O to 20 in H₂O - At 6.5 to 7 in H₂O, the baghouse cleaning cycle will be initiated 	<ul style="list-style-type: none"> - 0% – 100% - The permit limit is no more than 3 minutes in excess of 20% each hour - Baghouse operating characteristics will be reviewed after an excess emission event
C. Performance Criteria		
Data Representativeness	The pressure drop is monitored continuously	The exhaust gas opacity is monitored continuously by the opacity monitoring system
Verification of Operational Status	Pressure drop is recorded once per day for each compartment	Opacity is recorded continuously

Description	Indicator 1	Indicator 2
QA/QC Practices and Criteria	Quarterly maintenance checks per the manufacturer's recommendations and as described in the O&M Plan	Maintenance checks are performed as recommended by the manufacturer and as described in the O&M Plan Monthly VEE readings by certified personnel
Monitoring Frequency	Data recorded once per day for each compartment	Data recorded continuously in the DAS as one-minute values
Monitor Location	- Across inlet and outlet of each baghouse compartment - Across inlet and outlet of baghouse	Per USEPA Method 9
Data Collection Procedure	Pressure drop readings for each compartment are recorded once per day in an electronic log. The maintenance personnel involved complete maintenance work orders describing work completed	Data is recorded in DAS automatically.
Averaging Period	NA	NA

V. Justification for Monitoring Approach

Background

The emission unit is the 1,052 MMBtu/hr circulating fluidized bed (CFB) combustion boiler, which has a nameplate rating of 115 MW (gross). The boiler is permitted to combust coal, petroleum coke, and natural gas. The boiler was put into service in 1990. The particulate matter (PM) emissions from the CFB boiler are controlled by a baghouse. The CAM Plan applies during normal operations, the maintenance section of the O&M Plan will be followed during maintenance periods.

Rationale for Selection of Performance Indicators

The pressure drop across the bags was selected as a performance indicator because an increase in pressure differential is indicative of fabric blinding or decreased permeability and a decrease in pressure differential is indicative of a change in operation.

The stack exhaust gas opacity was selected as a performance indicator because an increase in opacity indicates process changes, changes in baghouse efficiency, or leaks in the bag(s).

Rationale for Selection of Indicator Ranges

The pressure differential indicator range is based on the maximum pressure for which the bags were designed to normally operate. Experience at the facility has shown that baghouse performance can decrease and the number of broken bags increases if the pressure drop is allowed to exceed the set point for the cleaning cycle (6.5 to 7 in H₂O).

The opacity range is the instrument range (0 to 100%). During normal operation, the stack exhaust opacity readings are less than 5%. Elevated opacity readings indicate potential changes in baghouse operation and or leaks.

APPENDIX A

EMISSION CALCULATIONS

Estimate PM10 emissions from stack

Basis: ACE facility

Firing rate -	1,052	MMBtu/hr
Fuel HHV (avg) -	10,000	Btu/lb
Op hrs/year	8,760	hours per year (maximum)
Fuel Usage -	460,776	tons/yr

Emission Factor (AP-42, 5th edition, Section 1.1, Table 1.1-4)

Bituminous coal as surrogate, fluidized bed, circulating (FBC, circulating) [Uncontrolled Emissions]

PM10 emissions 12.4 lbs PM10/ton fuel burned (uncontrolled)

PM10 Control Efficiency, Baghouse

99.0 percent

PM10 emissions [EF] x [tons coal burned] = PM10 emissions

652.2 lbs PM10/hr (uncontrolled)

5,713,622 lbs PM10/yr (uncontrolled)

2,857 tons PM10/yr (uncontrolled)

6.5 lbs PM10/hr (controlled)

57,136 lbs PM10/yr (controlled)

28.6 tons PM10/yr (controlled)

The uncontrolled PM10 emissions are above the major source threshold, therefore CAM applies for PM10 emissions

The following method was used by SJVAPCD to determine CAM applicability for Rio Bravo Poso.

Stack Emissions

Basis: emission limit in permit

Permitted PM10 Emission	lbs/hr (verified by annual compliance test,
Limit -	14.6 controlled emission)
Baghouse	
efficiency -	99 percent (assumed)
Operating hours -	8,760 hours/year

Uncontrolled emissions = controlled emissions x 8,760 hrs/yr ÷ (1 - control efficiency/100)

Uncontrolled emissions = 12,789,600 lbs PM10/year

6,395 tons/year

The uncontrolled PM10 emissions are above the major source threshold, therefore CAM applies for PM10 emissions